

OFFICIAL GAZETTE



GOVERNMENT OF GOA

NOTE: There is one Extraordinary issue to the Official Gazette, Series I No. 28 dated 8-10-98 namely, Extraordinary dated 14-10-1998 from pages 395 to 396 regarding Notification from Department of Finance (Revenue and Expenditure Division)

GOVERNMENT OF GOA

Department of Labour

Notification

26/6/98-LAB

The following draft amendment which the Government of Goa proposes to make to the Goa Control of Industrial Major Accident Hazards Rules, 1993, is hereby pre-published as required by section 115 of the Factories Act, 1948 (Central Act 63 of 1948), for information of the persons likely to be affected thereby and notice is hereby given that the said draft amendment will be taken into consideration by the Government on the expiry of three months from the date of publication of this Notification in the Official Gazette.

Any objections or suggestions to the said draft amendment may be forwarded to the Secretary to the Government of Goa, Labour Department, Secretariat, Panaji, before the expiry of three months from the date of publication of this Notification in the Official Gazette.

DRAFT AMENDMENT

In exercise of the powers conferred by section 112 read with section 41-B of the Factories Act, 1948 (Central Act 63 of 1948), and all other powers enabling it in that behalf, the Government of Goa hereby makes the following rules so as to amend the Goa Control of Industrial Major Accident Hazards Rules, 1993, as follows, namely:—

1. *Short title and commencement.*— (1) These rules may be called the Goa Control of Industrial Major Accident Hazards (Amendment) Rules, 1998.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. *Amendment of rule 2.*— In rule 2 of the Goa Control of Industrial Major Accident Hazards Rules, 1993 (hereinafter called the "principal Rules").

(a) in clause (b),—

(i) in sub-clause (i), for the words "an industrial installation," the words "a factory" shall be substituted;

(ii) sub-clause (ii) shall be omitted;

(b) in clause (c) for the words "an installation," the words "a factory" shall be substituted;

(c) for clause (d), the following shall be substituted, namely:—

"(d) "major accident" means an incident involving loss of life inside or outside the site or 10 or more injuries inside and/or one or more injuries outside or release of toxic chemical or explosion or fire or spillage of hazardous chemical resulting in 'on-site' or 'off-site' emergencies or damage to equipments leading to stoppage of process or adverse effects to the environment;"

(d) Clause (g) shall be omitted.

3. *Amendment of rule 3.*— In rule 3 of the principal Rules,—

(i) in sub-rule (1),—

(a) after the words "industrial activity", the words "or isolated storage" shall be inserted;

(b) for the word "and", the word "or" shall be substituted;

(ii) for sub-rule (2), the following shall be substituted, namely:—

"(2) An occupier of an industrial activity or isolated storage in terms of sub-rule (1) of this rule, shall arrange to obtain or develop information on hazardous chemical in the form of a material safety data sheet as specified";

(iii) in sub-rule (3), for the expression "material safety data sheet as indicated", wherever it occurs, the expression "safety data sheet as specified" shall be substituted.

4. *Insertion of new rule 3A.*— After rule 3 of the principal Rules, the following new rule shall be inserted, namely:—

"3A *Duties of Inspector.*— The Inspector shall—

(a) inspect the industrial activity or isolated storage at least once in a calendar year;

(b) send annually status report on the compliance with the Rules by occupiers to the Ministry of Environment and Forests through the Directorate General Factory Advice Service and Labour Institutes and Ministry of Labour, Government of India; and

(c) enforce directions and procedures in respect of industrial activities or isolated storages covered under the Factories Act, 1948 (Central Act 63 of 1948), and in respect of pipelines upto a distance of 500m from the outside of the perimeter of the factory, regarding—

- (i) notification of major accidents as per rules 5;
- (ii) notification of sites as per rules 7 and 8;
- (iii) safety reports and further information in terms of rules 10-12;
- (iv) preparation of on-site emergency plans as per rule 13 and involvement in the preparation of off-site emergency plans in consultation with District Collector or District Emergency Authority in terms of rule 14.

5. *Amendment of rule 4.*— In rule 4 of the principal Rules,—

(i) in the heading, for the word "occupiers", the word "occupier" shall be substituted;

(ii) in sub-rule (1),—

(a) in clause (a),

(1) the words "other than isolated storage" shall be omitted;

(2) for the word "and", appearing after the word and figure "schedule 1", the word "or" shall be substituted;

(b) in clause (b) for the word "quantity", the words "threshold quantity" shall be substituted;

(iii) in sub-rule (2),

(a) for the expression "An occupier who has control of an industrial activity in terms of sub-rule (i) of this rule, shall provide evidence to show that he has" the expression "An occupier in terms of sub-rule (1) shall provide information on demand to show that he has" shall be substituted;

(b) in item (ii) of clause (b), for the word "safety", the words "safety and health" shall be substituted.

6. *Amendment of rule 5.*— In rule 5 of the principal rules,—

(i) for sub-rule (1), the following shall be substituted, namely:—

where a major accident occurs on a site or in a pipeline, the occupier, shall within 48 hours, notify the Inspector and Chief Inspector of that accident, and furnish thereafter to the Inspector and Chief Inspector a report relating to the accident in instalments if necessary, in Schedule 6.";

(ii) for sub-rule (2), the following shall be substituted, namely—

"(2) The Inspector and Chief Inspector shall, on receipt of the report in accordance with sub-rule (1) of this rule undertake a full analysis of the major accident and send the requisite information to the Ministry of Environment and Forests through the Directorate General Factory Advice Service and Labour Institutes and Ministry of Labour, Government of India.";

(iii) After sub-rule (2), the following new sub-rules shall be inserted, namely:—

"(3) An occupier shall notify to the Inspector steps taken to avoid any repetition of such occurrence on a site.

(4) The Inspector and the Chief Inspector shall compile information regarding major accidents and make available a copy of the same to the Ministry of Environment and Forests through the Directorate General Factory Advice Service and Labour Institutes and Ministry of Labour, Government of India.

(5) The Inspector and the Chief Inspector shall inform the occupier in writing of any lacunae which in their opinion needs to be rectified to avoid major accidents".

7. *Amendment of rule 6.*— In rule 6 of the principal Rules,—

(i) in the heading, after the words "industrial activities", the words "or isolated storages" shall be inserted;

(ii) in sub-rule (1)—

(a) in clause (a),

(1) for the figures and words "7 to 9 and 13 to 15", the figures and words "7, 8, 13 and 15" shall be substituted;

(2) for the word "quantity", the words "threshold quantity" shall be substituted;

(b) in clause (b), for the word "quantity", occurring after the words "more than the", the words "threshold quantity" shall be substituted;

(c) in clause (c).—

(1) for the figures and words "7 to 9", the figures and words "7 and 8" shall be substituted;

(2) for the word "quantity" appearing after the words "more than the" the words "threshold quantity" shall be substituted.

(d) in clause (d),—

(1) for the figures and words “10 to 15”, the figures and words “10 to 13 and 15” shall be substituted;

(2) for the word “quantity”, occurring after words “more than the”, the words “threshold quantity” shall be substituted;

(iii) sub-rule (2) shall be omitted.

8. *Amendment of rule 7.*— In rule 7, of the principal Rules,—

(i) for the heading, the following shall be substituted, namely:— “Notification of site”;

(ii) in sub-rule (1),

(a) after the words “industrial activity”, the words “or isolated storage” shall be inserted;

(b) for the figure and word “3 months”, the figure and word “90 days” shall be substituted;

(c) for the word “quantity”, the words “threshold quantity” shall be substituted.

(iii) for sub-rule (2), the following shall be substituted, namely:—

“(2) the Chief Inspector shall, within 60 days from the date of receipt of the report in accordance with sub-rule (1) of this rule examine the report and if on such examination, he is of the opinion that contravention of the provisions of the Act or the rules made thereunder has taken place, he may issue notice for obtaining compliance.”

9. *Amendment of rule 8.*— In rule 8 of the principal Rules,—

(i) for the heading, the following shall be substituted namely:— “up-dating of the site notification”;

(ii) after the expression “in the pipeline or”, the word “at” shall be inserted;

(iii) after the expression “further report to the”, the words “Inspector and the” shall be inserted.

10. *Omission of rule 9.*— Rule 9 of the principal Rules shall be omitted.

11. *Amendment of rule 10.*— In rule 10 of the principal Rules,—

(i) in the heading, after the words “Safety Reports”, the words “and safety Audit Reports” shall be inserted;

(ii) in sub-rule (1),

(a) after the words “industrial activity” and before the expression “to which this rules apply”, the words “or isolated storage” shall be inserted;

(b) for the figure and word “3 months”, the figure and word “90 days” shall be substituted;

(iii) for sub-rules (2) and (3), the following shall be respectively substituted, namely:—

“(2) After the commencement of these rules, the occupiers of both the new and the existing industrial activities or isolated storages shall arrange to carry out safety audit by a competent agency to be accredited by an Accreditation Board to be constituted by the Ministry of Labour, Government of India in this behalf.

Further, such auditing shall be carried out as under:—

(a) internally once in a year by a team of suitable plant personnel;

(b) externally once in two years by a competent agency accredited in this behalf;

(c) in the year when an external audit is carried out, internal audit need not be carried out.

(3) The occupier shall within 30 days of the completion of the audit, send a report to the Chief Inspector with respect to the implementation of the audit recommendations.”

12. *Amendment of rule 11.*— In rule 11 of the principal Rules,—

(i) in the heading, for the word “reports”, the words “safety reports” shall be substituted;

(ii) in sub-rule (1),

(a) after the words “industrial activity”, the words “or isolated storage” shall be inserted;

(b) for the expression “Chief Inspector at least 3 months”, the words “Inspector and Chief Inspector at least 90 days” shall be substituted.

(iii) in sub-rule (2),

(a) after the words “industrial activity”, the words “or isolated storage” shall be inserted;

(b) for the figure and word “1 month”, the figure and word “30 days” shall be substituted.

(c) for the word “Chief Inspector”, the words “Inspector and the” shall be inserted.

13. *Amendment of Rule 12.*— For rule 12 of the principal Rules, the following shall be substituted, namely:—

“12. *Requirement for further information to be sent to the Inspector and the Chief Inspector.*—Where, in accordance with rules 10 and 11, an occupier has sent safety report and safety audit report relating to an industrial activity or isolated storage

to the Inspector and the Chief Inspector, the Inspector and the Chief Inspector may, by a notice served on the occupier, require him to provide such additional information as may be specified in the notice and the occupier shall send that information to the Inspector and the Chief Inspector within 90 days.”;

14. *Amendment of rule 13.*—In rule 13 of the principal Rules,—

(i) in the heading, for the words “plans” and “occupiers”, the words “plan” and “occupier” shall be respectively substituted;

(ii) for sub-rule (1), the following shall be substituted, namely:—

“(1) The occupier shall prepare, keep up-to-date and furnish to the Inspector and the Chief Inspector an on-site emergency plan containing details specified in Schedule 8A and detailing how major accidents will be dealt with on the site on which the industrial activity or isolated storage is carried on and that plan shall include the name of the person who is responsible for safety on the site and the names of those who are authorized to take action in accordance with the plan in case of an emergency.”;

(iii) In sub-rule (2),

(a) after the words “industrial activity”, the words “or isolated storage” shall be inserted;

(b) for the words “affected by”, the words “concerned with” shall be substituted;

(iv) in sub-rule (3), for clauses (a) and (b), the following shall be substituted, namely:—

“(a) before the commencement of industrial activity or isolated storage;

(b) within 90 days of coming into operation of these rules, in case an existing industrial activity or isolated storage.”;

(v) after sub-rule (3), the following shall be inserted, namely:—

(4) The occupier shall ensure that a mock drill of the on-site emergency is conducted at least once in every six months.

(5) A detailed report of the mock drill conducted under sub-rule (4) shall be immediately made available to the Inspector and the Chief Inspector.”.

15. *Omission of rule 14.*—Rule 14 of the principal Rules shall be omitted.

16. *Amendment of rule 15.*—In rule 15 of the principal Rules,—

(i) for sub-rule, (1) and (2), the following shall be substituted, namely:—

“(1) The occupier shall take appropriate steps to inform persons out-side the site who are likely to be in an area which may be affected by a major accident about—

(a) the nature of the major accident hazard; and

(b) the safety measures and the ‘Do’s and ‘Don’ts which should be adopted in the event of a major accident”.

(2) The occupier shall take appropriate steps specified in sub-rule (1) of this rule to inform persons about, an industrial activity or isolated storage before that activity is commenced, except that in respect of an existing industrial activity or isolated storage, the occupier shall comply with the requirements of sub-rule (1) of this rule within 90 days of coming into operation of these rules.”.

17. *Amendment of rule 16.*—In rule 16 of the principal Rules,—

(i) in the heading, the expression “notified under these Rules”, shall be omitted;

(ii) the expression “or the District Emergency Authority” wherever it occurs, shall be omitted.

18. *Omission of rule 17.*—Rule 17 of the principal Rules shall be omitted.

19. *Amendment of Schedules.*—In the principal Rules, for the existing schedule 1, 2, 3, 4 and 7, the following Schedules shall be respectively substituted, namely:—

SCHEDULE - 1

[See rules 2 (a) (i), 3 (1) and 4 (1) (a)]

(a) Toxic Chemicals:

Chemicals having the following values of acute toxicity and which owing to their physical and chemical properties, are capable of producing major accident hazards:

Sl. No.	Degree of Toxicity	Medium lethal dose by the oral route toxicity LD50 (mg/kg body weight of animals)	Medium lethal dose by the dermal route (dermal LD50 body weight of tens animals)	Medium lethal concentration by inhalation route (Four hours) LC50 (mg/l Inhalation in tens animals)
(1)	Extremely toxic	1-50	1-200	0.1-0.5
(2)	Highly toxic	51-500	201-2000	0.5-2.0

(b) *Flammable Chemicals:*

- (i) *Flammable gases:* chemicals which in the gaseous state at normal pressure and mixed with air become flammable and the boiling point of which at normal pressure is 20°C or below;
- (ii) *Highly flammable liquids:* chemicals which have a flash point lower than 23°C and the boiling point of which at normal pressure is above 20°C;
- (iii) *Flammable liquids:* chemicals which have a flash point lower than 65°C and which remain liquids under pressure, where particular processing condition, such as high pressure and high temperature, may create major accident hazards.

(c) *Explosives:* chemicals which may explode under the effect of flame, heat or photo-chemical conditions or which are more sensitive to shocks or friction than dinitrobenzene.

PART II

List of Hazardous and Toxic Chemicals

Sl. No.	Name of the Chemical
(1)	(2)
1.	Acetone
2.	Acetone Cyanohydrine
3.	Acetyl Chloride
4.	Acetylene (Ethyne)
5.	Acrolein (2-Propenal)
6.	Acrylonitrile
7.	Aldicarb
8.	Aldrin
9.	Alkyl Phthalate
10.	Allyl Alcohol
11.	Allylamine
12.	Alpa Naphthyl Thiourea (Autu)
13.	Aminodiphenyl,-4
14.	Aminophenol-2
15.	Amiton
16.	Ammonia
17.	Ammonium Nitrate
18.	Ammonium Nitrates in fertilizers
19.	Ammonium Sulfamate
20.	Anabasine
21.	Aniline
22.	Aniridine-p
23.	Antimony and Compounds
24.	Antimony Hydride (Stibine)
25.	Arsenic Hydride (Arsine)
26.	Arsenic Pentoxide, (Arsenic) (v), Acid and salts
27.	Arsenic Trioxide, Aresenious (iii), Acids and Salts
28.	Asbestos
29.	Azinphos-Ethyl
30.	Azinphos-Methyl
31.	Barium Azide
32.	Benzene
33.	Benzidine
34.	Benzidine Salts
35.	Benzoquinone
36.	Benzoyl Chloride
37.	Benzoyl Peroxide
38.	Benzyl Chloride
39.	Benzyl Cyanide

(1)	(2)
40.	Beryllium (Powders, Compounds)
41.	Biphenyl
42.	Bis (2-Chloromethyl) Ketone
43.	Bis (2, 4, 6-Trinitrophenyl) Amine
44.	Bis (2-Chloroethyl) Sulphide
45.	Bis (Chloromethyl) Ketone
46.	Bis (tert-Butylperoxy) Butane, -2, 2
47.	Bis (tert-Butylperoxy) Cyclohexane, 11
48.	Bis, 1, 2 Tribromophenoxy-Ethane
49.	Bisphenol
50.	Boron and Compounds
51.	Bromine
52.	Bromine Pentafluoride
53.	Bromoform
54.	Butadiene-1, 3
55.	Butane
56.	Butanone-2
57.	Butoxy Ethanol
58.	Butylglycidial Ether
59.	Butyl Peroxyacetate, tert
60.	Butyl peroxy Isobutyrate, tert
61.	Butyl peroxy Isopropyl carbonate, tert
62.	Butyl Peroxymaleate, tert
63.	Butyl peroxy pivalate, -tert
64.	Butyl vinyl Ether
65.	Butyl-n-Mercaptan
66.	Butylamine
67.	C 9-Aromatic Hydrocarbon Fraction
68.	Cadmium and Compounds
69.	Cadmium Oxide (fumes)
70.	Calcium Cyanide
71.	Captan
72.	Captofol
73.	Carbaryl (Sovin)
74.	Carbofuran
75.	Carbon Disulphide
76.	Carbon Monoxide
77.	Carbon Tetrachloride
78.	Carbophenothion
79.	Cellulose Nitrate
80.	Chlorates (used in explosives)
81.	Chlordane
82.	Chlorfenvinphos
83.	Chlorinated Benzenes
84.	Chlorine
85.	Chlorine Dioxide
86.	Chlorine Oxide
87.	Chlorine Trifluoride
88.	Chlormequae Chloride
89.	Chloroacetal Chloride
90.	Chloroacetaldehyde
91.	Chloroaniline, -2
92.	Chloroaniline, -4
93.	Chlorobenzene
94.	Chlorodiphenyl
95.	Chloroepoxypropane
96.	Chloroethanol
97.	Chloroethyl Chloroformate
98.	Chlorofluorocarbons
99.	Chloroform
100.	Chloroformyl, -4, Morpholine
101.	Chloromethane
102.	Chloromethyl Ether
103.	Chloromethyl Methy Ether
104.	Chloronitrobenzene
105.	Chloroprene

(1)	(2)	(1)	(2)
106.	Chlorosulphonic Acid	171.	Dioxathion
107.	Chlorotrinitrobenzene	172.	Dioxolane
108.	Chloroxuron	173.	Diphacinone
109.	Chromium and Compounds	174.	Diphosphoramide Octamethyl
110.	Cobalt and Compounds	175.	Dipropylene Glycolmethylether
111.	Copper and Compounds	176.	Disulfoton
112.	Coumafuryl	177.	Endosulfan
113.	Coumaphos	178.	Endrin
114.	Coumatalyl	179.	Epichlorohydrin
115.	Crenola	180.	EPN
116.	Crimidine	181.	Epoxypropane, 1, 2
117.	Cumene	182.	Ethion
118.	Cyanophos	183.	Ethyl Carbamate
119.	Cyanothoate	184.	Ethyl Ether
120.	Cyanuric Fluoride	185.	Ethyl Hexanol, -2
121.	Cyclohexane	186.	Ethyl Mercaptan
122.	Cyclohexanol	187.	Ethyl Methacrylate
123.	Cyclohexa	188.	Ethyl Nitrate
124.	Cyclohexamide	189.	Ethylamine
125.	Cyclopentadiene	190.	Ethylene
126.	Cyclopentane	191.	Ethylene Chlorohydrine
127.	Cycloletramethylentetranitramine	192.	Ethylene Diamine
128.	Cyclotrimethylene trinitramine	193.	Ethylene Dibromide
129.	DDT	194.	Ethylene Dichloride
130.	Decabromodiphenyl Oxide	195.	Ethylene Glycol Dinitrate
131.	Demeton	196.	Ethylene Oxide
132.	Di-Isobutyl Peroxide	197.	Ethylenimine
133.	Di-a-propyl Peroxydicarbonate	198.	Ethylthiocyanate
134.	Di-sec-Butyl Peroxydicarbonate	199.	Fensulphothion
135.	Dialifos	200.	Fluometil
136.	Diazodinitrophenol	201.	Fluoro, -4, -2-Hydroxybutyric Acid and Salts Esters, Amides
137.	Diazomethane	202.	Fluoroacetic Acid and Salts, Esters, Amides
138.	Dibenzyl Peroxydicarbonate	204.	Fluorobutyric Acid, -4, Salts, Esters, Amides
139.	Dichloroacetylene-O	205.	Formaldehyde
140.	Dichlorobenzene-O	206.	Glyconitrile (Hydroxyacetoneitrile)
141.	Dichlorobenzene-P	207.	Guanyl, -1, -4-Nitrosaminoguanyl-1-Tetrazene
142.	Dichloroethane	208.	Heptachlor
143.	Dichloroethyl Ether	209.	Hexachloro Cyclopentadiene
144.	Dichlorophenol, -2, 4	210.	Hexachlorocyclohexane
145.	Dichlorophenol, -2, 6	211.	Hexachlorocyclohexane
146.	Dichlorophenoxy Acetic Acid, -2, 4 (2, 4-D)	212.	Hexachlorodibenzo-p-Dioxin, 1, 2, 3, 7, 8, 9
147.	Dichloropropane, -1, 2	213.	Hexafluoropropene
148.	Dichlorosalicylic Acid, -3, 5	214.	Hexamethyl phosphoramidate
149.	Dichlorvos (DDVP)	215.	Hexamethyl, 3, 3, 6, 9, 9-1, 2, 4, 5-Tetraoxacyclononane
150.	Dicrotophos	216.	Hexamethyldiamine
151.	Dieldrin	217.	Hexane
152.	Diepoxybutane	218.	Hexanitroethylbenzene, -2, 2, 4, 4, 6, 6
153.	Diethyl Peroxydicarbonate	219.	Hexavalent Chromium
154.	Diethylene Glycol Dinitrate	220.	Hydrazine
155.	Diethylene Triamine	221.	Hydrazine Nitrate
156.	Diethyleneglycol Butyl Ether/Diethyleneglycol Butyl Acetate	222.	Hydrochloric Acid
157.	Diethylenetriamine (DETA)	223.	Hydrogen
158.	Diglycidyl Ether	224.	Hydrogen Bromide (Hydrobromic Acid)
159.	Dihydroperoxypropane, -2, 2	225.	Hydrogen Chloride (Liquified Gas)
160.	Di-isobutyl Peroxide	226.	Hydrogen Cyanide
161.	Dimefox	227.	Hydrogen Fluoride
162.	Dimethoate	228.	Hydrogen Selenide
163.	Dimethyl Phosphoramidocyanidic Acid	229.	Hydrogen Sulphide
164.	Dimethyl Phthalate	230.	Hydroquinone
165.	Dimethyl carbomyl	231.	Iodine
166.	Dimethylnitrosamine	232.	Isobenzan
167.	Dinitrophenol, Salts	233.	Isodrin
168.	Dinitrotoluene	234.	Isophorone Diisocyanate
169.	Dinitro-o-Cresol	235.	Isopropyl Ether
170.	Dioxane	236.	Juglone (5-Hydroxyaphthalene-1, 4-Dione)

(1)	(2)	(1)	(2)
237.	Lead (Inorganic fumes & dusts)	302.	Oleylamine
238.	Lead 2, 4, 6-Trinitroresorcinoxide (Lead Styphnate)	303.	OO-Diethyl S-Ethylsulphonylmethyl
239.	Lead Azide	304.	OO-Diethyl S-Ethylsulphonylmethyl
240.	Leptophos		Phosphorothioate
241.	Lindane	305.	OO-Diethyl S-Ethylthiomethyl Phospherothioate
242.	Liquified Petroleum Goa (LPG)	306.	OO-Diethyl S-Inoprophylthiomethyl
243.	Maleic Anhydride		Phosphorodithioate
244.	Managanese & Compounds	307.	OO-Diethyl S-propylthiomethyl Phosphorodithiolate
245.	Mercapte Senzothiazole	308.	Oxyamyl
246.	Mercury Alkyl	309.	Oxydisulfoton
247.	Mercury Fulminate	310.	Oxygen
248.	Mercury Methyl	311.	Oxygen Difluoride
249.	Methacrylke Anhydride	312.	Ozone
250.	Methacrylonitrile	313.	Paroxon (diethyl 4-Nitrophenyl Phosphate)
251.	Methacryloyl Chloride	314.	Paraquat
252.	Methamidophos	315.	Parathion
253.	Methanesuphonyl Fluoride	316.	Parathion Methyl
254.	Methanthiol	317.	Paris green (Bis Aceto. Hexametarsen ito Tetracopper)
255.	Methoxy Ethanol (2-Methyl Cellosolve)	318.	Pentaborane
256.	Methoxyethylmercuric Acetate	319.	Pentabromodiphenyl Oxide
257.	Methyl Acrylate	320.	Pentabromophenol
258.	Methyl Alcohol	321.	Pentachloro Naphthalene
259.	Methyl Amylketone	322.	Pentachloroethane
260.	Methyl Bromide (Bromomethane)	323.	Pentachlorophenol
261.	Methyl Chloride	324.	Pentaerythritol Tetranitrate
262.	Methyl Chloroform	325.	Pentane
263.	Methyl Cyclohexene	326.	Peracetic Acid
264.	Methyl ethyl Ketone Peroxide	327.	Perchloroethylene
265.	Methyl Hydrazine	328.	Perchloromethyl Mercaptan
266.	Methyl Isobutyl Ketone	329.	Petanone, 2, 4-Methyl
267.	Methyl, Isobutyl Ketone Peroxide	330.	Phenol
268.	Methyl Isocyanate	331.	Phenyl Glycidal Ether
269.	Methyl Isothiocyanate	332.	Phenylene P-Diamine
270.	Methyl Mercaptan	333.	Phenylmercury Acetate
271.	Methyl Methacrylate	334.	Phorate
272.	Methyl Parathion	335.	Phosacetim
273.	Methyl Phosphonic Dichloride	336.	Phosalone
274.	Methyl-N, 2, 4, 6-Tetranitroaniline	337.	Phosfolan
275.	Methylene Chloride	338.	Phosgene (carbonyl chloride)
276.	Methylenebis-4, 4, (2,-chloroaniline)	339.	Phosmet
277.	Methyltrichlorosilane	340.	Phosphamidon
278.	Mevinphos	341.	Phosphine (Hydrogen Phosphide)
279.	Molybdenum & Compounds	342.	Phosphoric Acid and Esters
280.	N-Methyl-N, 2, 4, 6-Tetranitroaniline	343.	Phosphoric Acid, Bromoethyl Bromo
281.	Naphtha (Coal Tar)		(2, 2-Dimethylpropyl) Bromoethyl Ester
282.	Naphtylamine, 2	344.	Phosphoric Acid, Bromoethyl Bromo
283.	Nickel & Compounds		(2, 2-Dimethylpropyl) Chloroethyl Ester
284.	Nickel Tetracarbonyl	345.	Phosphoric Acid Chloroethyl Bromo
285.	Nitroaniline-O		(2, 2-Dimethoxypropyl) Chloroethyl Ester
286.	Nitroaniline-P	346.	Phosphorous & Compounds
287.	Nitrobenzene	347.	Phostalan
288.	Nitrochlorobenzene-P	348.	Picric Acid (2, 4, 6-Trinitrophenol)
289.	Nitrocyclohexane	349.	Polybrominated Biphenyls
290.	Nitroethane	350.	Potassium Arsenite
291.	Nitrogen Dioxide	351.	Potassium Chlorate
292.	Nitrogen Oxides	352.	Promurit (1-(3, 4-Dichlorophenyl)—
293.	Nitrogen Trifluoride		triazenethiocarboxamide)
294.	Nitroglycerine	353.	Propannentultone-1, 3
295.	Nitrophenol-P	354.	Propen-1, -2-Chloro-1, 3-Diol-Diacetate
296.	Nitropropane-1	355.	Propylene Oixde
297.	Nitropropane-2	356.	Propyleneimine
298.	Nitrosodimethylamine	357.	Pryazoxon
299.	Nitrotoluene	358.	Solonium Hexafluoride
300.	Octabromophenyl Oxide	359.	Semicarbazide Hydrochloride
301.	Oleum	360.	Sodium Arsenite

(1)	(2)
361.	Sodium Azide
362.	Sodium Chlorate
363.	Sodium Cyanide
364.	Sodium Picramate
365.	Sodium Selenite
366.	Styrene, 1, 1, 3, 2-Tetrachloroethane
367.	Sulfotep
368.	Sulphur dichloride
369.	Sulphur Dioxide
370.	Sulphur Trioxide
371.	Sulphuric Acid
372.	Sulphoxide, 3-Chloropropyl
373.	Tellurium
374.	Tellurium Hexafluoride
375.	Tepp
376.	Terbufon
377.	Tetrabromo Bisphenol-A
378.	Tetrachloro, 2, 2, 5, 6, 2, 5-Cyclohexadiene-1, 4-Dione
379.	Tetrachlorodibenzo-p Dioxin, 2, 3, 7, 8 (TCDD)
380.	Tetrachyl Lead
381.	Tetrafluoroethane
382.	Tetramethylenedisulphotetramine
383.	Tetramethyl Lead
384.	Tetranitromethane
385.	Thallium & Compounds
386.	Thionazin
387.	Thionazin
388.	Thinoyl Chloride
389.	Tirpate
390.	Toluene
391.	Toluene-2-4-Diisocyanate
392.	Toluidine-O
393.	Toluene 2, 6-Diisocyanate
394.	Trans-1 4-Chlorobutene
395.	Tri-1 (cyclohexyl) Stannyl-1H-1, 2, 4-Trazole
396.	Triamino, -1, 3, 5, 2, 4, 6-Trinitrobenzene
397.	Tribromophenol, 2, 4, 6
398.	Trichloro Acetyl Chloride
399.	Trichloro Ethane
400.	Trichloro Naphthalene
401.	Trichloro (Chloromethyl) Silane
402.	Trichlorodichlorophenylsilane
403.	Trichloroethane, 1, 1, 1
404.	Trichlorethyl Silane
405.	Trichloroethylene
406.	Trichloromethanesulphenyl Chloride
407.	Trichlorophenol, 2, 2, 6
408.	Trichlorophenol, 2, 4, 5
409.	Triethylamine
410.	Triethylenemelamine
411.	Trimethyl Chlorosilane
412.	Trimethylpropane Phosphite
413.	Trinitroaniline
414.	Trinitroanisole, 2, 2, 4, 6
415.	Trinitrobenzene
416.	Trinitrobenzoic Acid
417.	Trinitrocresol
418.	Trinitrophenetole, 2, 5, 6
419.	Trinitroresorcinol, 2, 4, 6 (Styphnic Acid)
420.	Trinitrotoluene
421.	Triothoceryl Phosphate
422.	Triphenyltin Chloride
423.	Turpentine
424.	Uranium & Compounds
425.	Vanadium & Compounds

(1)	(2)
426.	Vinyl Chloride
427.	Vinyl Fluoride
428.	Vinyl Toluene
429.	Warfarin
430.	Xylene
431.	Xylidine
432.	Zinc & Compounds
433.	Zirconium & Compounds

SCHEDULE 2

[See rules 2 (c), 4 (1) (b), 6 (1) (c) and (d)]

(a) The threshold quantities set out below relate to each installation or group of installations belonging to the same occupier where the distance between installations is not sufficient to avoid, in foreseeable circumstances, any aggravation of major accident hazards. These threshold quantities apply in any case to each group of installations belonging to the same occupier where the distance between the installations is less than 500 metres.

(b) For the purpose of determining the threshold quantity of a hazardous chemical at an isolated storage, account shall also be taken of any hazardous chemical which is:—

(i) in that part of any pipeline under the control of the occupier having control of the site, which is within 500 metres of that site and connected to it,

(ii) at any other site under the control of the same occupier any part of the boundary of which is within 500 metres of the said site; and

(iii) in any vehicle, vessel, aircraft or hovercraft under the control of the same occupier which is used for storage purpose either at the site or within 500 metres of it; but no account shall be taken of any hazardous chemical which is in a vehicle, vessel, aircraft or hovercraft used for transporting it.

Sl. No.	Chemicals	Threshold Quantities (tonnes)	
		For application of Rules 4, 5 & 8	For application of Rules 10 to 15
(1)	(2)	(3)	(4)
1.	Acrylonitrile	350.000	5,000.000
2.	Ammonia	60.000	600.000
3.	Ammonium nitrate (a)	350.00	2,500.000
4.	Ammonium nitrate fertilizers (b)	1,250.000	10,000.000
5.	Chlorine	10.000	25.000
6.	Flammable gases as defined in Schedule 1, paragraph (b) (i)	50.000	3,000.000

(1)	(2)	(3)	(4)
7. Highly flammable liquids as defined in Schedule 1, Paragraph (b) (ii)	10,000.000	10,000.000	
8. Liquid oxygen	200.000	2,000.000	
9. Sodium chlorate	25.000	250.000	
10. Sulphur dioxide	20.000	500.000	
11. Sulphur trioxide	15.000	100.000	
12. Carbonyl chloride	0.750	0.750	
13. Hydrogen Sulphide	5.000	50.000	
14. Hydrogen Fluoride	5.000	50.000	
15. Hydrogen cyanide	5.000	20.000	
16. Carbon disulphide	20.000	200.000	
17. Bromine	50.000	500.000	
18. Ethylene oxide	5.000	501.000	
19. Propylene oxide	5.000	50.000	
20. 2-Propenal (Acrolein)	20.000	200.000	
21. Bromomethane (Methyl bromide)	20.000	200.000	
22. Methyl Isocyanate	0.150	0.150	
23. Tetraethyl lead or tetramethyl lead	5.000	50.000	
24. 1, 2 Dibromoethane (Ethylene dibromide)	5.000	50.000	
25. Hydrogen chloride (liquified gas)	25.000	250.000	
26. Diphenyl methane di-isocyanate (MDI)	20.000	200.000	
27. Toluene di-isocyanate (TDI)	10.000	100.000	

FOOT NOTES:

(a) This applies to ammonium nitrate and mixtures of ammonium nitrate where the nitrogen content derived from the ammonium nitrate is greater than 28 per cent by weight and to aqueous solutions of ammonium nitrate where the concentration of ammonium nitrate is greater than 90 per cent by weight.

(b) This applies to straight ammonium nitrate fertilizer and to compound fertilizers where the nitrogen content derived from the ammonium nitrate is greater than 28 per cent by weight (a compound-fertilizer contains ammonium nitrate together with phosphate and/or potash).

SCHEDULE 3

[See rules 2 (a) (iii), 6 (1) (a) and (b)]

(a) The quantities set-out-below relate to each installation or group of installations belonging to the same occupier where the distance between the installation is not sufficient to avoid, in foreseeable circumstances, any aggravation of major-accident hazards. These quantities apply in any case to each group of installations belonging to the same occupier where the distance between the installations is less than 500 metres.

(b) For the purpose of determining the threshold quantity of a hazardous chemical in an industrial installation, account shall also be taken of any hazardous chemicals which is:—

(i) in that part of any pipeline under the control of the occupier having control of the site, which is within 500 metres off that site and connected to it;

(ii) at any other site under the control of the same occupier any part of the boundary of which is within 500 metres of the said site, and

(iii) in any vehicle, vessel, aircraft or hovercraft under the control of the same occupier which is used for storage purpose either at the site or within 500 metres of it;

But no account shall be taken of any hazardous chemical which is in a vehicle, vessel, aircraft or hovercraft used for transporting it.

Part I Named Chemicals

Sl. No.	Chemicals	Threshold	Quantity	CAS Numbers
		For application of Rules 7, 78, 13 and 15	For application of Rules 10 to 12	
(1)	(2)	(3)	(4)	(5)
Group 1-Toxic Chemicals				
1.	Aldicarb	100 kg		116-06-3
2.	4-Aminodiphenyl	1 kg		92-67-1
3.	Amiton	1 kg		78-53-5
4.	Anabasine	100 kg		494-52-0
5.	Arsenic pentoxide, Arsenic (v) acid & Salts	500 kg		
6.	Arsenic trioxide Arsenious (III) acid & Salts	100 kg		
7.	Arsine (Arsenic hydride)	10 kg		7784-42-1
8.	Azinphos-ethyl	100 kg		2642-71-9
9.	Azinphos-methyl	100 kg		86-50-0
10.	Benzidine	1 kg		92-87-5
11.	Benzidine salts	1 kg		
12.	Beryllium (powders, compounds)	10 kg		
13.	Bis (2-chloroethyl) sulphide	1 kg		505-60-2
14.	Bis (chloromethyl) ether	1 kg		542-88-1
15.	Carbofuran	100 kg		1563-66-2
16.	Carbophenothion	100 kg		786-19-6
17.	Chlorfenvinphos	100 kg		470-90-6
18.	4-(Chloroformyl) morpholine	1 kg		15159-40-7
19.	Chloromethyl methyl ether	1 kg		107-30-2
20.	Cobalt metal, oxides, carbonates, sulphides, as powders	1 T		
21.	Crimidine	100 kg		535-89-7
22.	Cyanthoate	100 kg		3734-95-0
23.	Cycloheximide	100 kg		66-81-9
24.	Demeton	100 kg		8065-48-3
25.	Dialifos	100 kg		10311-84-9
26.	OO-Diethyl S-ethylsulphinyl methyl phosphorothioate	100 kg		2588-05-8
27.	OO-Diethyl S-ethylsulphonyl methyl phosphorothioate	100 kg		2588-06-9
28.	OO-Diethyl S-ethylthiomethyl phosphorodithioate	100 kg		2600-69-3

(1)	(2)	(3)	(4)	(5)	(1)	(2)	(3)	(4)	(5)
29. OO-diethyl S-isopropylthiomethyl phosphorodithioate	100 kg			78-52-4	68. Nickel Metal, oxides, carbonates, sulphide, as powders	1 t			
30. OO-Diethyl S-propylthiomethyl phosphorothioate	100 kg			3309-68-0	69. Nickel tetracarbonyl	10 kg			13463-39-3
31. Dimefox	100 kg			115-26-4	70. Oxydisulfoton	100 kg			2497-07-6
32. Dimethylcarbamoyl chloride	1 kg			79-44-7	71. Oxygen difluoride	10 kg			7783-41-7
33. Dimethylnitrosamine	1 kg			62-75-9	72. Paraoxon (diethyl 4-nitrophenyl phosphate)	100 kg			311-45-5
34. Dimethyl phosphoramidocyanidic acid	1 T			63917-41-9	73. Parathion	100 kg			56-38-2
35. Diphacinone	100 kg			82-66-6	74. Parathion-methyl	100 kg			298-00-0
36. Disulfoton	100 kg			298-04-4	75. Pentaborane	100 kg			19624-22-7
37. EPN	100 kg			2104-64-5	76. Phorate	100 kg	100 kg		298-02-2
38. Ethion	100 kg			563-12-2	77. Phosacetim	100 kg			4104-14-7
39. Fensulfothion	100 kg			115-90-2	78. Phosgene (carbonyl chloride)	750 kg	750 kg		75-44-5
40. Fluenetil	100 kg			4301-50-2	79. Phosphamidon	100 kg			13171-21-6
41. Fluoroacetic acid	1 kg			144-49-0	80. Phosphine (Hydrogen phosphide)	100 kg			7803-51-2
42. Fluoroacetic acid, salts	1 kg				81. Promurit (1-(3, 4-Dichlorophenyl)-3-triazene-thio carbonyl amide)	100 kg			5836-73-7
43. Fluoroacetic acid, esters	1 kg				82. 1,3-Propanesultone	1 kg			1120-71-4
44. Fluoroacetic acid, amides	1 kg				83. 1-propen-2-chloro-1, 3-diol diacetate	10 kg			10118-72-6
45. 4-Fluorobutyric acid	1 kg			462-23-7	84. Pyrazoxon	100 kg			108-34-9
46. 4-Fluorobutyric acid, salts	1 kg				85. Selenium hexafluoride	10 kg			7783-79-1
47. 4-Fluorobutyric, esters	1 kg				86. Sodium Selenite	100 kg			10102-18-8
48. 4-Fluorobutyric acid, amides	1 kg				87. Stibine (Antimony hydride)	100 kg			7803-52-3
49. 4-Fluorocrotonic acid	1 kg			37759-72-1	88. Sulfotop	100 kg			3689-24-5
50. 4-Fluorocrotonic acid, salts	1 kg				89. Sulphur dichloride	1 t			10545-99-0
51. 4-Fluorocrotonic acid, esters	1 kg				90. Tellurium hexafluoride	100 kg			7783-80-4
52. 4-Fluorocrotonic acid, amides	1 kg				91. TEPP	100 kg			107-49-3
53. 4-Fluoro-2-hydroxybutyric acid	1 kg				92. 2, 3, 7, 8-Tetrachlorodibenzo-p-dioxin (TCDD)	1 kg			1746-01-6
54. 4-Fluoro-2-hydroxybutyric acid, salts	1 kg				93. Tetramethylenedisulphotetramine	1 kg			80-12-6
55. 4-Fluoro-2-hydroxybutyric acid, esters	1 kg				94. Thionazin	100 kg			297-97-2
56. 4-Fluoro-2-hydroxybutyric acid, amides	1 kg				95. Tirpate (2, 4-Dimethyl-1,3-dithiolane-2-carboxaldehyde O-methylcarbamoyloxima)	100 kg			26419-73-8
57. Glycolonitrile (hydroxyacetonitrile)	100 kg			107-16-4	96. Trichloromethanesulphenyl chloride	100 kg			594-42-3
58. 1, 2, 3, 7, 8, 9-Hexachlorodibenzo-P-dioxin	100 kg			19408-74-3	97. 1-Tri (cyclohexyl) stanny-1H-1, 2, 4-triazole	100 kg			41083-11-8
59. Hexamethylphosphoramide	1 kg			680-31-9	98. Triethylenemelamine	10 kg			51-18-3
60. Hydrogen selenide	10 kg			7783-07-5	99. Warfarin	100 kg			81-81-2
61. Isobenzan	100 kg			297-78-9	Group 2-Toxic chemicals (Quantity > 1 tonne)				
62. Isodrin	100 kg			465-73-6	100. Acetone cyanohydrin (2-Cyanopropan-2-ol)	200 t			75-86-5
63. Juglone (5-Hydroxynaphthalene-1, 4-dione)	100 kg			481-39-0	101. Acrolein (2-Propenal)	20 t			107-02-8
64. 4, 4'-Methylenebis (2-chloroaniline)	10 kg			101-14-4	102. Acrylonitrile	20 t	200 t		107-13-1
65. Methyl isocyanate	150 kg	150 kg		624-83-9	103. Allyl alcohol (2-Propen-1-ol)	200 t			107-18-6
66. Mevinphos	100 kg			7786-34-7	104. Allylamine	200 t			107-11-9
67. 2-Naphthylamine	1 kg			91-59-8	105. Ammonia	50 t	500 t		7664-41-7

(1)	(2)	(3)	(4)	(5)	(1)	(2)	(3)	(4)	(5)
106. Bromine		40 t		7726-95-6	136. Diethyl peroxydicar-				
107. Carbon disulphide		20 t	200 t	75-15-0	bonate				
108. Chlorine		10 t	25 t	7782-50-5	(concentration > = 30%)	50 t		14666-78-5	
109. Diphenyl methane					137. 2,2-Dihydroperoxy-				
di-isocyanate (MDI)		20 t		101-68-8	propane				
110. Ethylene dibromide					(concentration > = 30%)	5 t		2614-76-8	
(1, 2-Dibromomethane)		5 t		106-93-4	138. Di-isobutryl peroxide				
111. Ethyleneimine		50 t		151-56-4	(concentration > = 50%)	50 t		3437-84-1	
112. Formaldehyde					139. Di-n-propyl peroxydicar-				
(concentration > = 90%)		5 t		50-00-0	bonate				
113. Hydrogen chloride					(concentration > = 80%)	5 t		16066-38-9	
(liquefied gas)		25 t	250 t	7647-01-0	140. Ethylene oxide		5 t	50 t	75-21-8
114. Hydrogen cyanide		5 t	20 t	74-90-8	141. Ethyl nitrate		50 t		625-58-1
115. Hydrogen fluoride		5 t	50 t	7664-39-3	142. 3, 3, 6, 6, 9, 9,				
116. Hydrogen sulphide		5 t	50 t	7783-06-4	-Hexamethyl -1, 2, 4, 5-				
117. Methyl bromide					tetroxacyclonane				
(Bromomethane)		20 t		74-83-9	(concentration > = 75%)	50 t	50 t	22397-33-7	
118. Nitrogen oxides		50 t		11104-93-1	143. Hydrogen		2 t	50 t	1333-74-0
119. Propyleneimine		50 t		75-55-8	144. Liquid oxygen		200 t		7782-44-7
120. Sulphur dioxide		20 t	250 t	7446-09-5	145. Nethyl ethyl ketone				
121. Sulphur trioxide		15 t	75 t	7446-11-9	peroxide				
122. Tetraethyl lead		5 t		78-00-2	(concentration > = 60%)	5 t	5 t	1338-23-4	
123. Tetramethyl lead		5 t		75-74-1	146. Methyl isobutyl ketone				
124. Toluene di-isocyanate					peroxide				
(TDI)		10 t		584-84-9	(concentration > = 60%)	50 t		37206-20-5	
Group3-Highly reactive					147. Peracetic acid				
chemicals					(concentration > = 60%)	50 t		79-21-0	
125. Acetylene (ethyne)		5 t		74-86-2	148. Propylene oxide		5 t	5 t	75-56-9
126. a. Ammonium nitrate (I)	350 t		2500 t	6484-52-2	149. Sodium chlorate		25 t		7775-09-9
b. Ammonium nitrate in					Group 4 - Explosive Chemicals				
the form of fertili-					150. Barium azide		50 t		18810-58-7
ser (2)		1,250 t			151. Bis (2, 4, 6-trinito				
127. 2, 2-Bis (tert-butyl-					phenyl)amine		50 t		131-73-7
-peroxy)butane					152. Chlorotrinitrobenzene		50 t		28260-61-9
(concentration > = 70%)		5 t		2167-23-9	153. Cellulose nitrate				
128. 1, 1-Bis (tert-butyl-					(containing > 12.6%				
-peroxy) cyclohexane					nitrogen)		50 t		9004-70-0
(concentration > = 80%)		5 t		3006-86-8	154. Cyclotetramethylene				
129. Tert-Butyl peroxyacetate					tetranitramine		50 t		2691-41-0
(concentration > = 70%)		5 t		107-71-1	155. cyclotrimethylenetri				
130. Tert-Butyl peroxyisobut-					nitroamine		50 t		121-82-4
urate (concentration		5 t		109-13-7	156. Diazodinitrophenol		10 t		7008-81-3
> = 80%)					157. Diethylene glycol				
131. Tert-Butyl peroxyisopro-					dinitrate		10 t		693-21-0
pyl carbonate					158. Dinitrophenol, salts		50 t		
(concentration > = 80%)		5 t		2372-21-6	159. Ethylene glycol				
132. Tert-butyl peroxy maleate					dinitrate		10 t		628-96-6
(concentration > = 80%)		5 t		1931-62-0	160. 1-Guanyl-4-				
133. Tert-Butyl peroxy pi-					nitrosamineoguananyl-1-				
valate					tetrazete		10 t		109-27-3
(concentration > = 77%)		50 t		927-07-1	161. 2, 2', 4, 4', 6, 6'				
134. Dibenzyl peroxydicar-					-Hexanitrostilbene		50 t		20062-22-0
bonate					162. Hydrazine nitrate		50 t		13464-97-6
(concentration > = 90%)		5 t		2144-45-8	163. Lead azide		50 t		13424-46-9
135. Di-Sec-butyl peroxydicar-									
bonate									
(concentration > = 80%)		5 t		19910-65-7					

(1)	(2)	(3)	(4)	(5)
164. Lead styphnate (lead 2, 4, 6-trinitro- -resorcinoxide)	50 t			15245-44-0
165. Mercury fulminate	10 t			628-86-4
166. N-Methyl-N, 2, 4, 6-tetranitroaniline	50 t			479-45-8
167. Nitroglycerine	10 t	10 t		55-63-0
168. Pentaerythritol tetranitrate	50 t			78-11-5
169. Picric acid (2, 4, 6- -Trinitrophenol)	50 t			88-89-1
170. Sodium picramate	50 t			831-52-7
171. Styphnic acid (2, 4, 6- -Trinitroresorcino)	50 t			82-71-3
172. 1, 3, 5-Triamino-2, 4, 6-trinitrobenzene	50 t			3058-38-6
173. Trinitroaniline	50 t			26952-42-1
174. 2, 4, 6-Trinitroanisole	50 t			606-35-9
175. Trinitrobenzene	50 t			25377-32-6
176. Trinitrobenzoic acid	50 t			35860-50-5
177. Trinitrocresol	50 t			28905-71-7
178. 2, 4, 6-Trinitrophenetole	50 t			4732-14-3
179. 2, 4, 6-Trinitrotoluene	50 t	50 t		118-96-7

Part-II Classes of chemicals not specifically named
in Part-I

Sl. No.	Classes of Chemicals	Threshold Quantity	
		For application of Rules 5, 7 8, 13 and 15	For application of Rules 10 to 12
(1)	(2)	(3)	(4)
Group-5-Flammable Chemicals			
1.	Flammables gases: Chemicals which in gaseous state at normal pressure and mixed with air become flammable and the boiling point of which at normal pressure is 20 degree C or below;	15 t	200 t
2.	Highly flammable liquids: Chemicals which have a flash point lower than 23 degree C and the boiling point of which at normal pressure is a b o v e 20 degree C;	1000 t	50.000 t

3. Flammable liquids:

Chemicals which have a
flash point lower than 65
degree C and which re-
main liquid under pressure,
where particular processing
conditions, such as high
pressure and high tempera-
ture, may create major
accident hazards.

25 t

200 t

FOOT NOTES:

(1) This applies to ammonium nitrate and mixtures of ammonium nitrate where the nitrogen content derived from the ammonium nitrate is greater than 28% by weight and aqueous solutions of ammonium nitrate where the concentration of ammonium nitrate is greater than 90% by weight.

(2) This applies to straight ammonium fertilisers and to compound fertilisers where the nitrogen content derived from the ammonium nitrate is greater than 28% by weight (a compound fertiliser contains ammonium nitrate together with phosphate and/or potash).

*CAS Number (Chemical Abstracts Service Number) means the number assigned to the chemical by the Chemical Abstracts Service.

SCHEDULE 4

[See Rule 2 (b) (i)]

(1) Factories involving in production, processing or treatment of organic or inorganic chemicals using for this purpose, among others:

(a) alkylation

(b) amination by amonolysis

(c) carbonylation

(d) condensation

(e) dehydrogenation

(f) esterification

(g) halogenation & manufacture of halogens

(h) hydrogenation

(i) hydrolysis

(j) oxidation

(k) polymerization

(l) sulphonation

(m) desulphurization, manufacture and transformation of sulphur-containing compounds

(n) nitration and manufacture of nitrogen-containing compounds

(o) manufacture of phosphorous-containing compounds

(p) formulation of pesticides and of pharmaceutical products

- (q) distillation
- (r) extraction
- (s) solvation
- (t) mixing
- (2) Factories involving in distillation, refining or other processing of petroleum or petroleum products.
- (3) Factories involving in total or partial disposal of solid or liquid chemicals by incineration or chemical decomposition.
- (4) Factories involving in production, processing, or treatment of energy gases, for example, LPG, LNG, SNG.
- (5) Factories involving in dry distillation of coal or lignite.
- (6) Factories involving in production of metals or non-metals by a wet process or by means of electrical energy.

SCHEDULE 7

[See Rule 7 (1)]

INFORMATION TO BE FURNISHED FOR THE NOTIFICATION OF SITE

Particulars to be included in a notification of site.

- (1) The name and address of the occupier making the notification.
- (2) The full postal address of the site where the notifiable industrial activity will be carried on.
- (3) The area of the site covered by the notification and of any adjacent site which is required to be taken into account by virtue of Schedule 2 (b) and Schedule 3 (b).
- (4) The date on which it is anticipated that the notifiable industrial activity will commence or if it has already commenced a statement to that effect.
- (5) The name and maximum quantity liable to be on the site of each hazardous chemical for which notification is being made.
- (6) Organisation structure, namely, organisation diagram for the proposed industrial activity and set up for ensuring safety and health.
- (7) Information relating to the potential for major accidents, namely—
 - (a) identification of major accident hazards;
 - (b) the condition of events which could be significant in bringing one about;
 - (c) a brief description of the measures taken.
- (8) Information relating to the site namely—
 - (a) a map of the site and its surrounding area to a scale large enough to show any features that may be significant in the assessment of the hazard or risk associated with the site;
 - (i) area likely to be affected by the major accident;
 - (ii) population distribution in the vicinity;
 - (b) a scale plan of the site showing the location and quantity of all significant inventories of the hazardous chemicals;
 - (c) a description of the processes or storages involving the hazardous chemicals, the maximum amount of such a hazardous chemical in the given process or storage and an indication of the conditions under which it is normally held;
 - (d) the maximum number of persons likely to be present on site.
- (9) The arrangement for training of workers and equipment necessary to ensure safety of such workers.

20. *Insertion of new Schedule.*— In the principal Rules, after Schedule 8, the following Schedule shall be inserted, namely:—

SCHEDULE 8A

[See Rule 13 (1)]

DETAILS TO BE FURNISHED IN THE ON-SITE EMERGENCY PLAN

- (1) Name and address of the person furnishing the information.
- (2) Key personnel of the organisation and responsibilities assigned to them in case of an emergency.
- (3) Outside organisations if involved in assisting during on-site emergency.
 - (a) Type of accidents.
 - (b) Responsibility assigned.
- (4) Details of liason arrangement between the organisations.
- (5) Information on the preliminary hazard analysis:
 - (a) Type of accidents.
 - (b) System elements or events that can lead to a major accident
 - (c) Hazards
 - (d) Safety relevant components
- (6) Details about the site:
 - (a) Location of dangerous substances.
 - (b) Seat of key personnel.
 - (c) Emergency control room.
- (7) Description of hazardous chemicals at plant site:
 - (a) Chemicals (Quantities and toxicological data).
 - (b) Transformation, if any which could occur.
 - (c) Purity of hazardous chemicals.
- (8) Likely dangers to the plant:
- (9) Enumerate effects of:
 - (i) stress and strain caused during normal operation;
 - (ii) fire and explosion inside the plant and effect if any, of fire and explosion out side.

(10) Details regarding:

- (i) warning, alarm & safety and security systems.
- (ii) alarm and hazard control plans in line with disaster control and hazard control planning, ensuring the necessary technical and organizational precautions.
- (iii) reliable measuring instruments, control units and servicing of such equipments.
- (iv) precautions in designing of the foundation and load bearing parts of the building.
- (v) continuous surveillance of operations.
- (vi) maintenance and repair work according to the generally recognised rules of good engineering practices.

(11) Details of communication facilities available during emergency and those required for an off-site emergency.

(12) Details of fire fighting and other facilities available and those required for an off-site emergency.

(13) Details of first aid and hospital services available and its adequacy.

By order and in the name of the Governor of Goa.

C. V. Dhume, Chief Inspector of Factories and Boilers & Ex-Officio Jt. Secretary.

Panaji, 21st August, 1998.

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